



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

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SECRETARY

MEMORANDUM TO: Project Engineers  
Project Design Engineers

FROM: G. R. Perfetti, P. E.  
State Bridge Design Engineer

DATE: September 28, 2005

SUBJECT: DESIGN MANUAL FIGURES 6-33, 6-34

Design Manual Figures 6-33 and 6-34 have been revised to eliminate interference between the middle set of "E" bars and the guardrail anchor assembly. The changes are noted as follows:

- The distance to the first "E" bar was reduced from 3"(75mm) to 2 1/2"(65mm).
- The distance to the centerline of the concrete inserts was increased from 7 1/4"(185mm) to 7 7/8"(201mm) to match Standard BMR2(SM).

The figures are attached for immediate use. The Design Manual will be updated at a later date.

GRP/DAS/snj

Attachments

[Fig. 6-33 \(English\)](#), [Fig. 6-33 \(Metric\)](#)  
[Fig. 6-34 \(English\)](#), [Fig. 6-34 \(Metric\)](#)

cc: R. V. Keith, P. E., with attachments  
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